

pDPG165 35S - bar - 1111
4562 Base Pairs

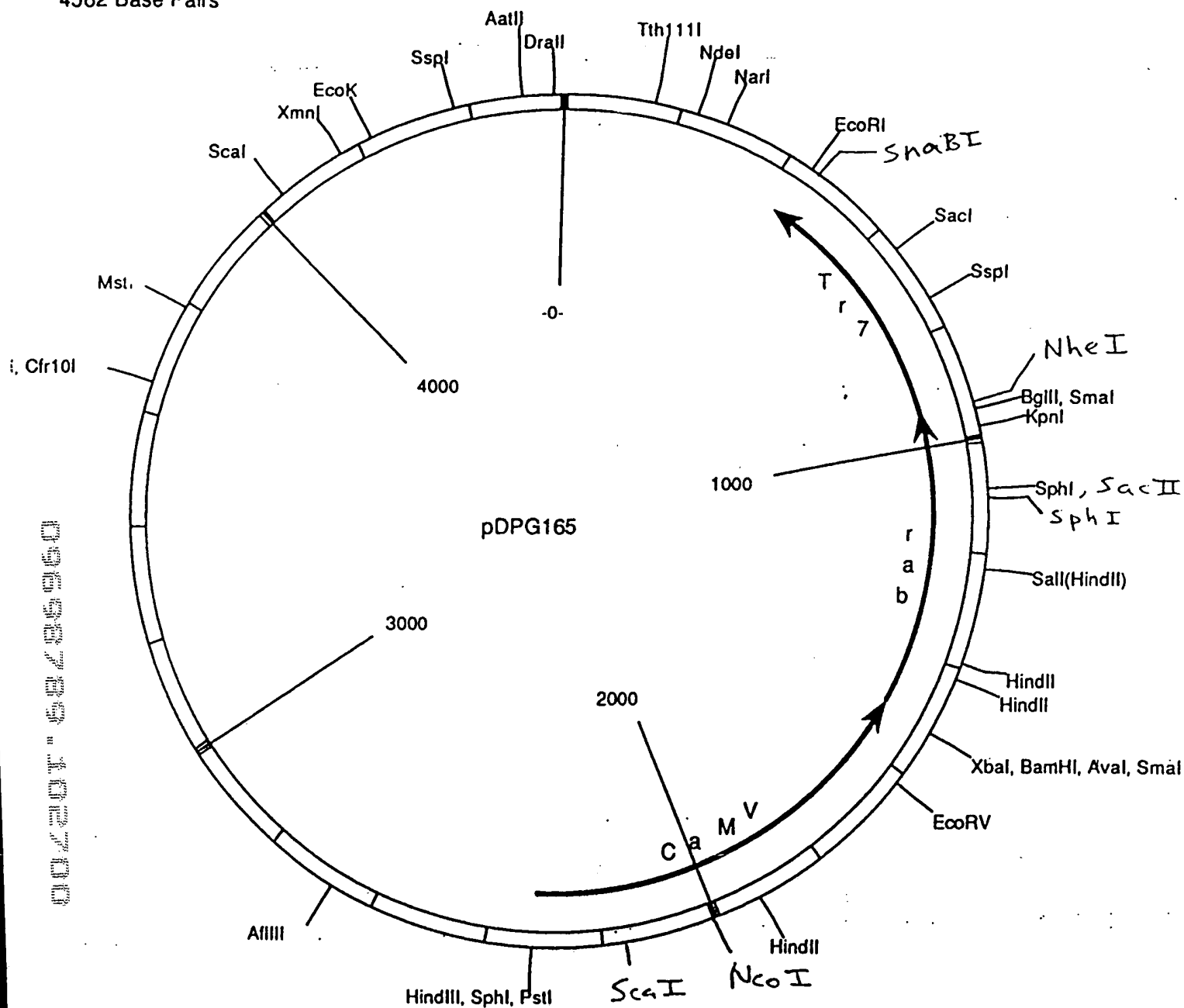


FIG. 1

00696789-102700

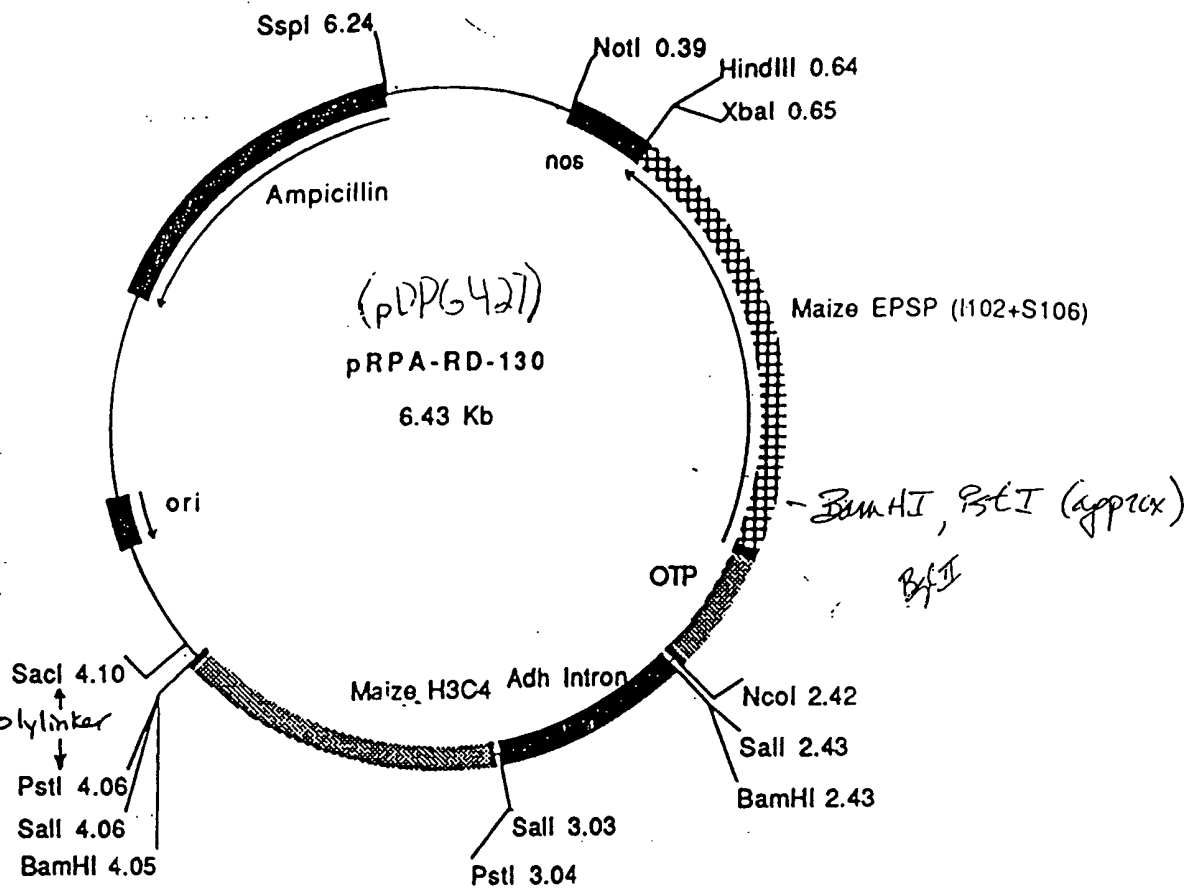


FIG. 2

09698789-102700

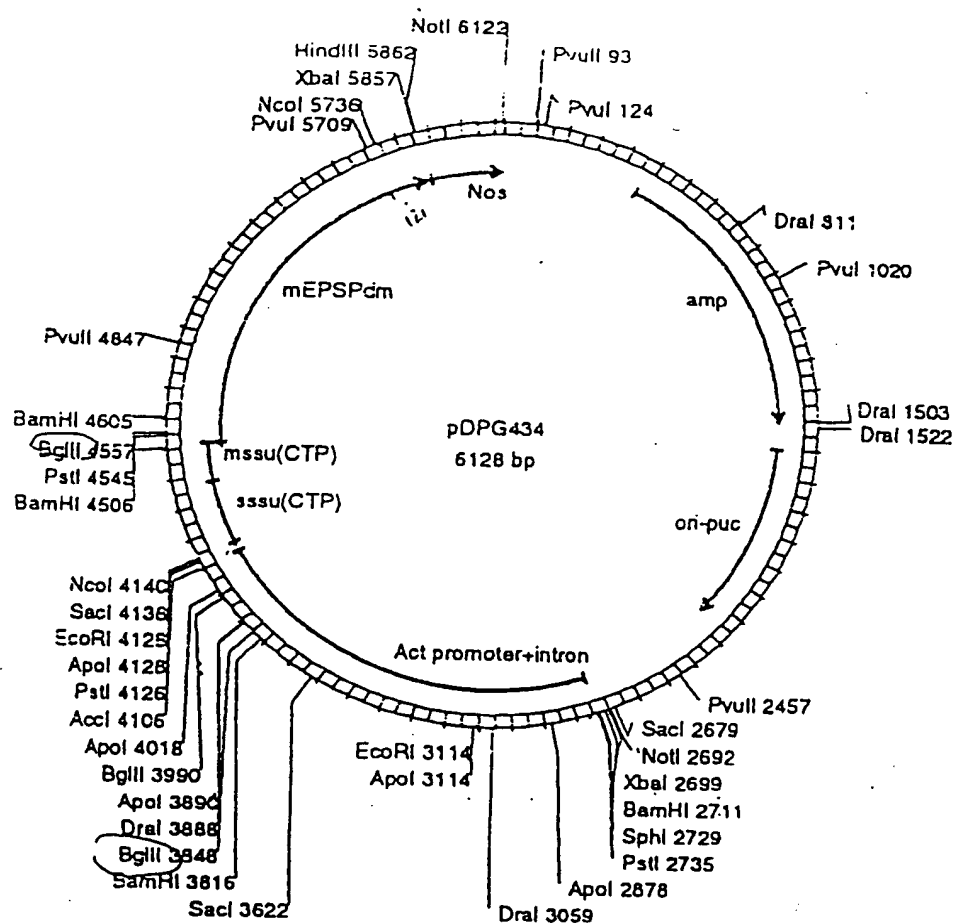
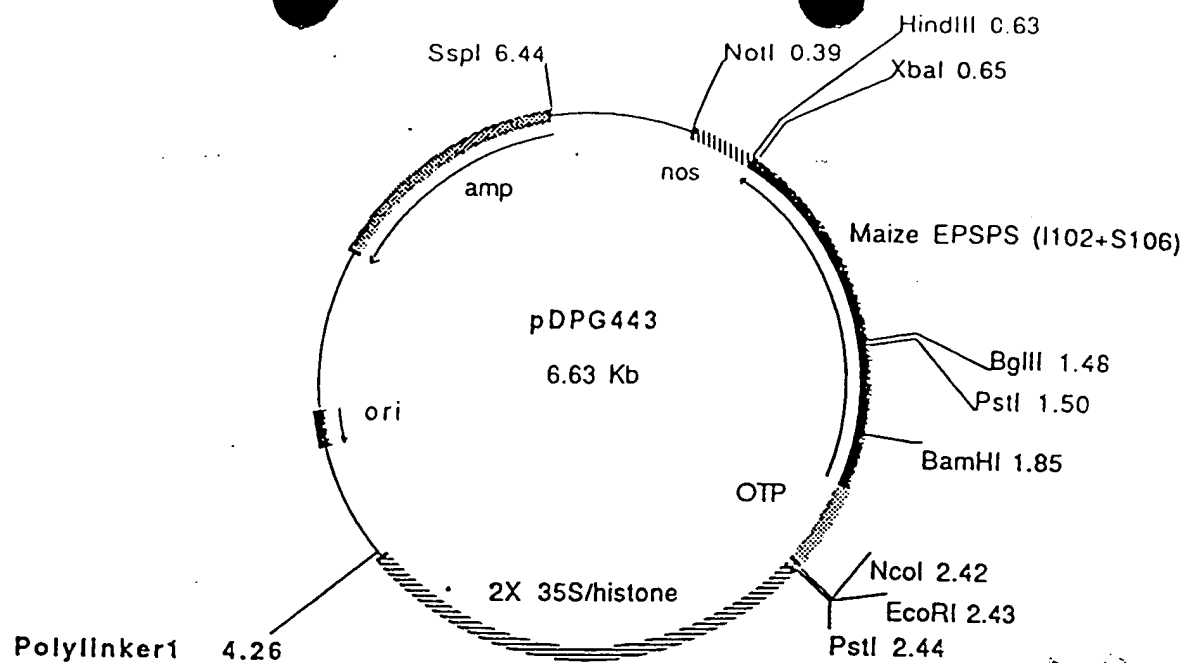


FIG. 3



Polylinker1: 4.26/SacI.BstXI.SacII.XmaIII.NotI.XbaI.SpeI.BamHI.

FIG. 4

MW(kb)

1 2 3

23.1 -

9.4 -

6.6 -

4.4 -

2.3 -

2.0 -

0.6 -

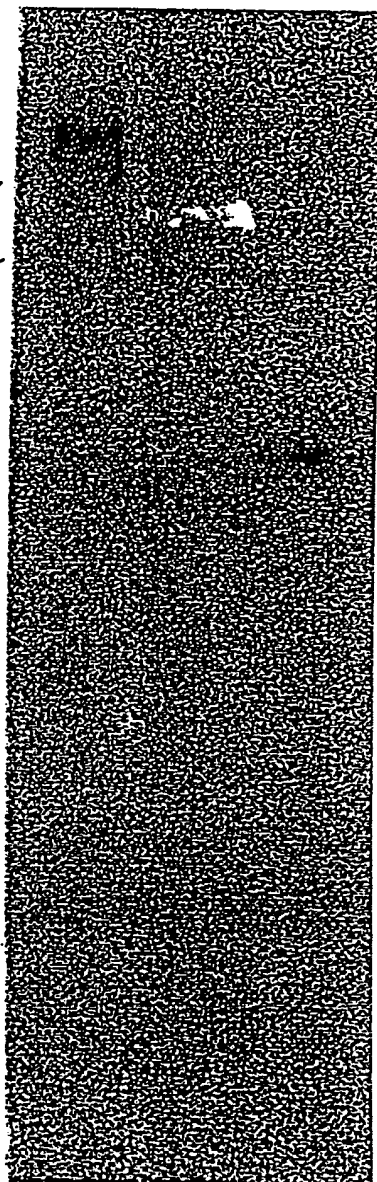


FIG. 5A

09698789-102700

MW(Rb)

1 2 3

23.1 -

9.4 -

6.6 -

4.4 -

2.3 -

2.0 -

0.6 -

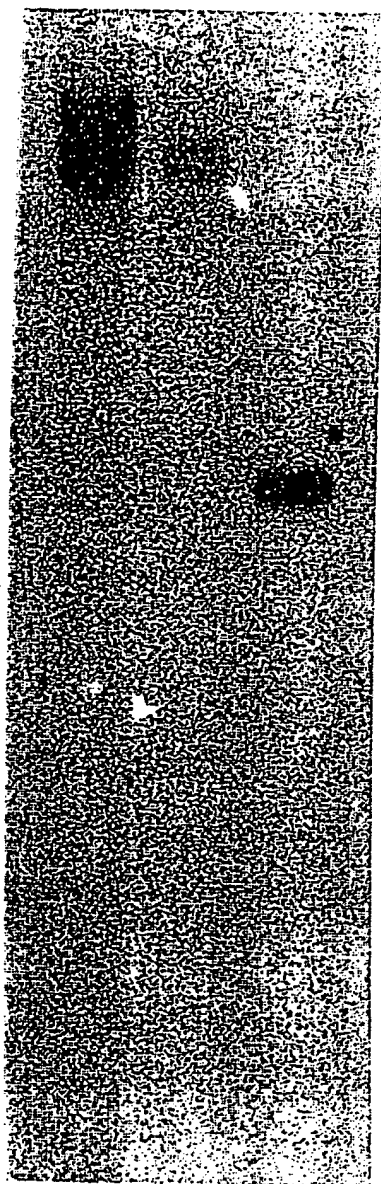


FIG. 5B

09698789-102700

MW(Rb)

1

2

3

23.1 -

9.4 -

6.6 -

4.4 -

2.3 -

2.0 -

0.6 -

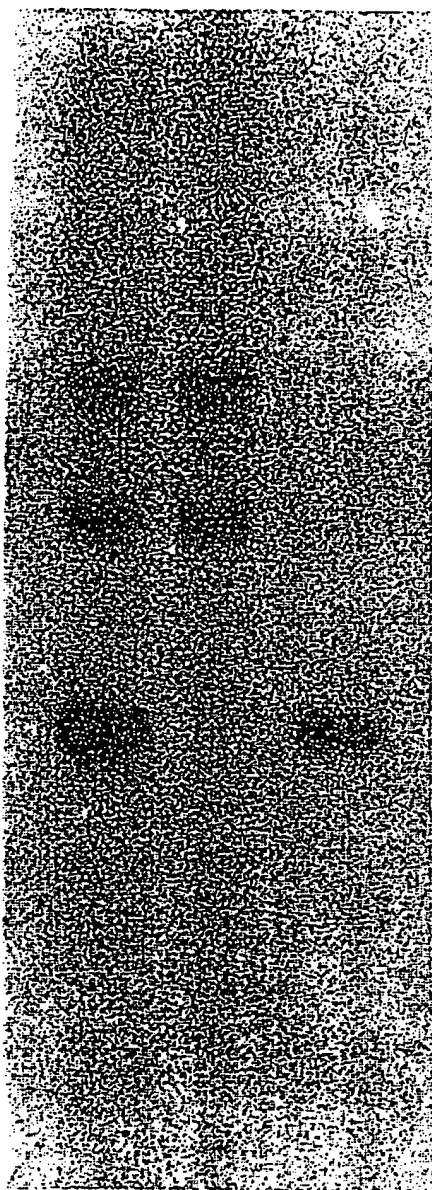


FIG. 6

09698789 .102700

MW(Kb)

1 2 3

23.1 -

9.4 -

6.6 -

4.4 -

2.3 -

2.0 -

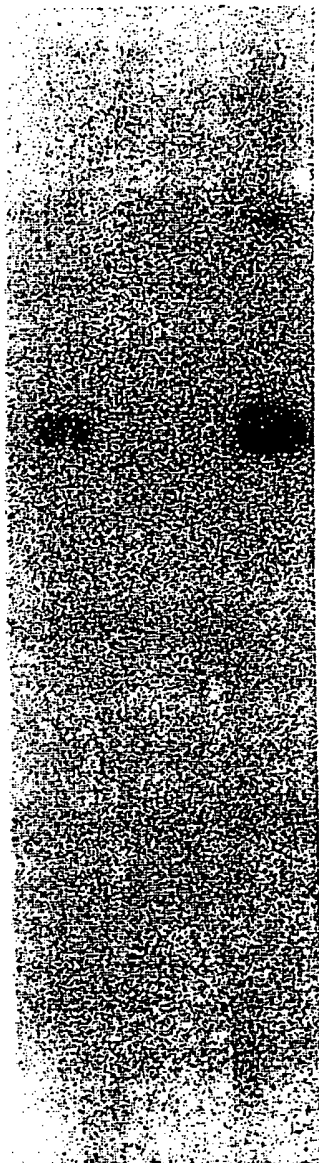


FIG. 7

00698789.102700

EXPERIMENT 963019 - GROWTH REDUCTION
RR Unfinshied Hybrids (BC₄)

HYBRID	EVENT	MEAN ELH 10 DAT V4 ROUNDUP APPLICATION							MALE STERILE
		0X	1X	Diff	RANK	4X	Diff	RANK	
DK580	GA21	104.1	102.4	1.7	1	102.3	1.8	1	None
	FI117	100.1	97.7	2.3	2	97.7	2.4	2	None
	GJ11	105.0	102.4	2.6	3	98.6	6.5	3	None
	GG25	105.5	99.4	6.2	4	97.3	8.3	4	None
DK626	GA21	98.8	97.1	1.8	3	97.9	1.0	1	None
	FI117	96.4	91.3	5.1	4	92.7	3.7	3	None
	GJ11	96.0	96.8	-0.8	1	94.0	2.0	2	None
	GG25	99.5	97.8	1.6	2	93.1	6.4	4	None

FIG. 8A

HYBRID	EVENT	MEAN ELH 10 DAT V8 ROUNDUP APPLICATION							MALE STERILE
		0X	1X	Diff	RANK	4X	Diff	RANK	
DK580	GA21	142.7	139.6	3.1	3	139.2	3.5	2	None
	FI117	143.4	139.5	3.9	4	139.1	4.3	3	None
	GG25	141.4	139.8	1.6	2	136.5	5.0	4	YES
	GJ11	139.3	139.3	0.0	1	137.3	2.0	1	YES
DK626	GA21	134.8	139.2	-4.4	1	134.0	0.8	1	None
	FI117	135.4	134.2	1.3	4	132.1	3.3	4	None
	GJ11	135.7	137.7	-2.0	2	133.1	2.6	3	YES
	GG25	135.5	136.6	-1.0	3	134.0	1.6	2	YES

FIG. 8B

004201" 58735950

RR - 963019 DK580 bu/a CONTRASTS

LEVEL1		LEVEL2		DIFFERENCE (LEV. 1 - LEV. 2)	Prob>T
HYBRID	RU*@TIMING	HYBRID	RU*@TIMING		
DK580	0X	DK580 FI117	0X	-16.60	0.0339
DK580	0X	DK580 FI117	4X@V4	11.33	0.1468
DK580 FI117	0X	DK580 FI117	4X@V4	27.97	0.0004
DK580	0X	DK580 GA21	0X	3.67	0.6378
DK580	0X	DK580 GA21	4X@V4	-5.35	0.4923
DK580 GA21	0X	DK580 GA21	4X@V4	-9.02	0.2478
DK580	0X	DK580 GG25	0X	-4.13	0.5957
DK580	0X	DK580 GG25	4X@V4	-3.50	0.6531
DK580 GG25	0X	DK580 GG25	4X@V4	0.63	0.9352
DK580	0X	DK580 GJ11	0X	-9.43	0.2267
DK580	0X	DK580 GJ11	4X@V4	-6.05	0.4376
DK580 GJ11	0X	DK580 GJ11	4X@V4	3.38	0.6640

*Roundup Ultra 4X rate = 1.52 lb. ae/acre, i.e. 64 ounces/acre.

FIG. 9A

09698789 "102700

RR - 963019 DK626 bu/a CONTRASTS

LEVEL1		LEVEL2		DIFFERENCE (LEV. 1 - LEV. 2)	Prob>T
HYBRID	RU*@TIMING	HYBRID	RU*@TIMING		
DK626	0X	DK626 FI117	0X	-11.10	0.1559
DK626	0X	DK626 FI117	4X@V8	5.12	0.5113
DK626 FI117	0X	DK626 FI117	4X@V8	16.20	0.0388
DK626	0X	DK626 GA21	0X	-2.58	0.7401
DK626	0X	DK626 GA21	4X@V8	-9.63	0.2171
DK626 GA21	0X	DK626 GA21	4X@V8	-7.05	0.3658
DK626	0X	DK626 GG25	0X	-6.93	0.3738
DK626	0X	DK626 GG25	4X@V8	23.97	0.0024
DK626 GG25	0X	DK626 GG25	4X@V8	30.90	0.0001
DK626	0X	DK626 GJ11	0X	1.70	0.8272
DK626	0X	DK626 GJ11	4X@V8	27.62	0.0005
DK626 GJ11	0X	DK626 GJ11	4X@V8	25.92	0.0011

*Roundup Ultra 4X rate = 1.52 lb. ae/acre, i.e. 64 ounces/acre.

FIG. 9B

002207" 53785550

Bgl II digest
probe: nos 3'-end

- ② FI117
- ⑤ GA21
- ⑩ GG25
- ⑪ GT11
- ⑫ negative control
- ⑬ pDP6427

FIG. 10

Mu(kb) ① ② ③ ④

23.1 -

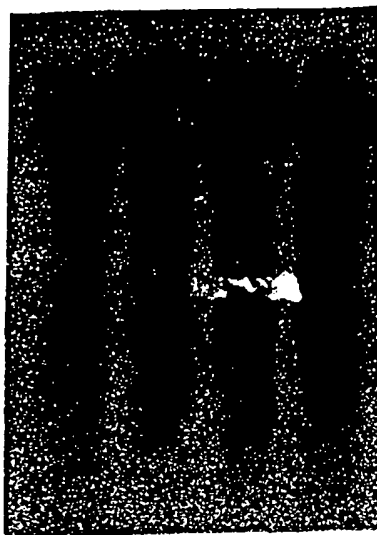
9.4 -

6.6 -

4.4 -

2.3 -

2.0 -



EcoRV digest
probe; 324 bp EPSB fragment

① negative control

② GA21

③ GG25

④ GF11

FIG. 11A

W(Pb) ① ② ③ ④

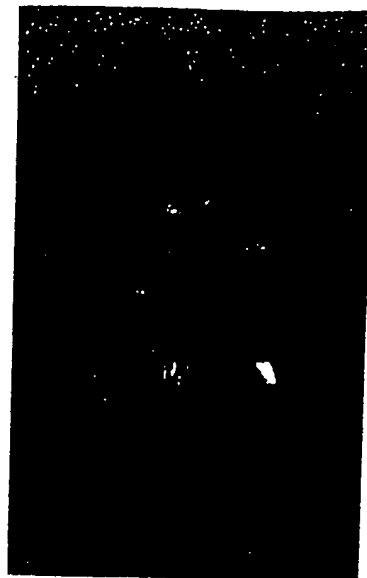
9.4 -

6.6 -

4.4 -

2.3 -

2.0 -



SphI digest
probe: 324 bp EPSPS fragment

① negative control

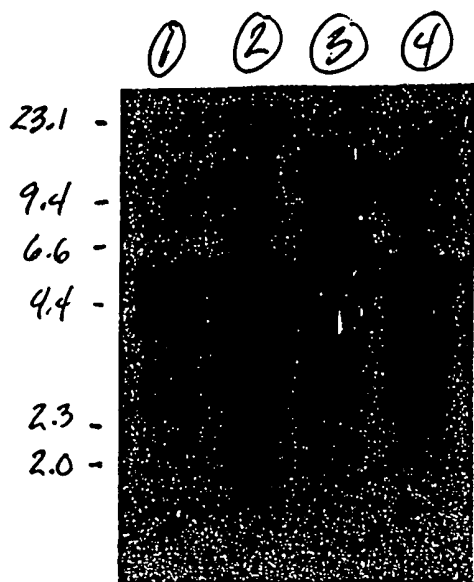
② BA21

③ GG25

④ GT11

FIG. 11B

09698789-102700



SacI digest
 probe: 324 bp EPSPS fragment
 ① negative control
 ② GA21
 ③ GG25
 ④ GT11

FIG. 11C

963019 Test Map Example

REP	ROW	COL1	COL2	COL3	COL4	COL5	COL6	COL7	COL8	COL9	COL10	COL11	COL12
3	4	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
3	4	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21
3	4	T-4X@V4	T-4X@V8	T-1X@V8	T-1X@V4	N-OX	T-OX	T-4X@V4	T-1X@V8	N-OX	T-4X@V8	T-OX	T-1X@V4
3	3	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
3	3	FI117	FI117	FI117	FI117	FI117	FI117	GA21	GA21	GA21	GA21	GA21	GA21
3	3	T-1X@V4	T-1X@V8	N-OX	T-OX	T-4X@V4	T-4X@V8	T-1X@V8	T-4X@V4	N-OX	T-OX	T-1X@V4	T-4X@V8
3	2	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
3	2	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25
3	2	T-1X@V8	T-4X@V8	T-OX	T-1X@V4	N-OX	T-4X@V4	T-1X@V4	T-4X@V8	T-OX	T-1X@V8	T-4X@V4	N-OX
3	1	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626	DK626	DK626
3	1	N-OX	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25
3	1	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626	DK626	DK626
3	1	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25
3	1	T-1X@V8	T-4X@V8	T-OX	T-1X@V4	N-OX	T-4X@V4	T-1X@V4	T-4X@V8	T-OX	T-1X@V8	T-4X@V4	N-OX
2	4	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
2	4	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21
2	4	T-OX	T-1X@V4	N-OX	T-4X@V4	T-1X@V8	T-4X@V8	T-1X@V8	T-1X@V4	T-4X@V8	T-4X@V4	N-OX	T-OX
2	3	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
2	3	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21
2	3	T-4X@V8	T-1X@V8	T-4X@V4	T-OX	N-OX	T-1X@V4	N-OX	T-OX	T-4X@V8	T-1X@V8	T-1X@V4	T-4X@V4
2	2	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
2	2	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25
2	2	T-1X@V8	N-OX	T-4X@V4	T-1X@V4	T-OX	T-4X@V8	T-4X@V4	T-OX	T-1X@V4	T-4X@V8	T-1X@V8	N-OX
2	1	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
2	1	FI117	FI117	FI117	FI117	FI117	FI117	GA21	GA21	GA21	GA21	GA21	GA21
2	1	T-4X@V8	N-OX	T-OX	T-1X@V4	T-1X@V8	T-4X@V4	T-4X@V4	N-OX	T-4X@V8	T-1X@V8	T-OX	T-1X@V4
1	4	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
1	4	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21
1	4	T-4X@V8	N-OX	T-1X@V8	T-4X@V4	T-1X@V4	T-OX	T-4X@V4	T-4X@V8	T-OX	T-1X@V4	T-1X@V8	N-OX
1	3	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
1	3	FI117	FI117	FI117	FI117	FI117	FI117	FI117	FI117	FI117	FI117	FI117	FI117
1	3	T-1X@V4	T-1X@V4	N-OX	T-1X@V8	T-OX	T-4X@V8	T-1X@V4	T-4X@V8	T-4X@V4	N-OX	T-1X@V8	T-OX
1	2	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
1	2	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25
1	2	T-4X@V8	T-4X@V4	T-OX	N-OX	T-1X@V4	T-1X@V8	T-4X@V4	T-4X@V8	T-OX	N-OX	T-1X@V8	T-1X@V4
1	1	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
1	1	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25
1	1	T-OX	T-OX	T-4X@V4	T-4X@V8	T-1X@V4	T-1X@V8	T-4X@V4	T-1X@V8	T-OX	T-4X@V8	T-1X@V4	N-OX

002207 58285950

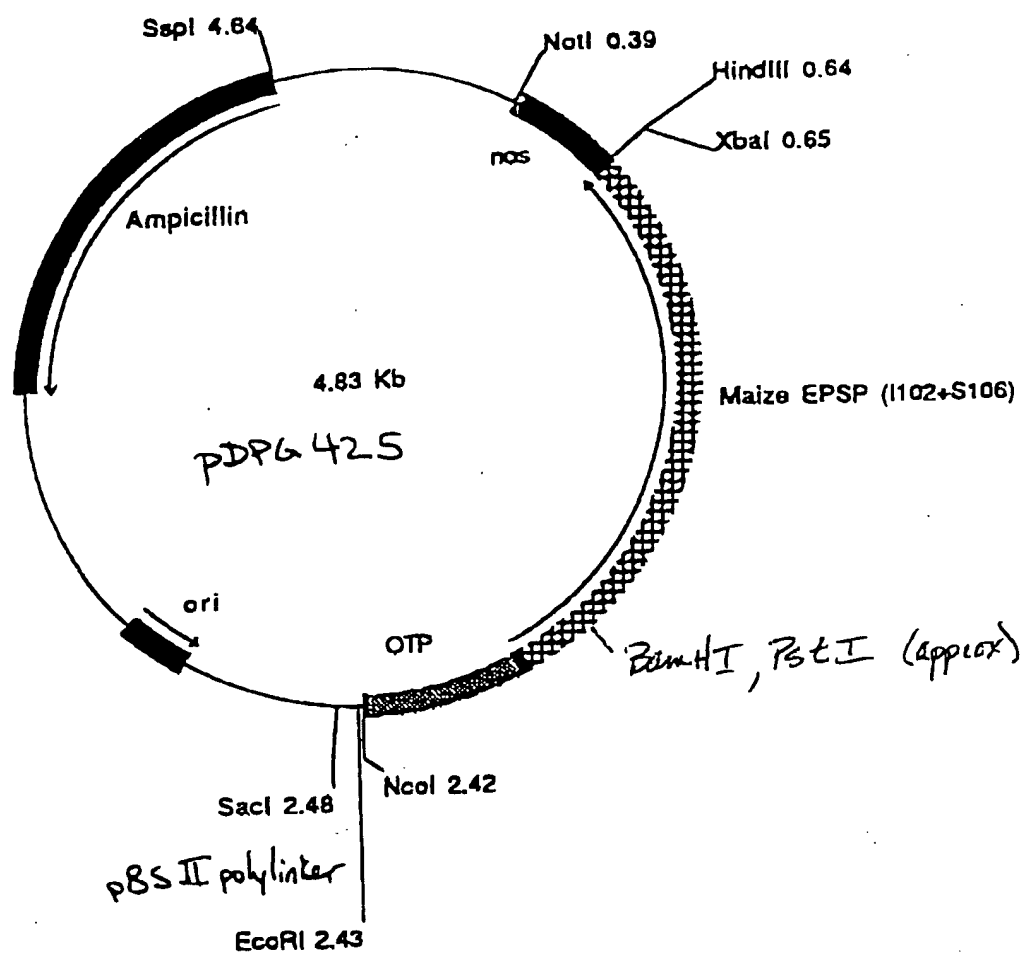


FIG. 14

09698789.1

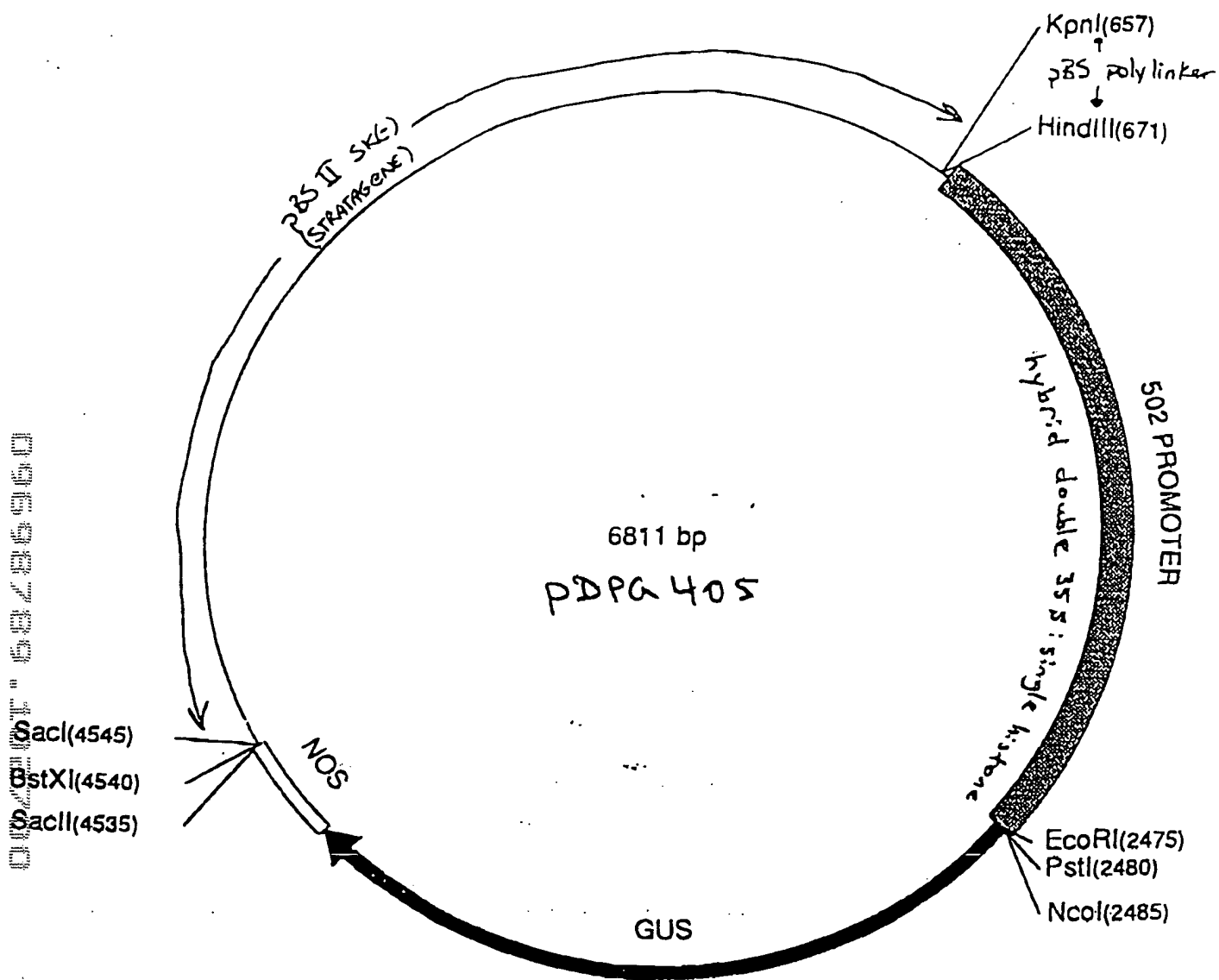


FIG. 15